



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SAK-TC336DA-32F200S AA	<b>Issued</b>	23. June 2021
<b>MA#</b>	MA005447361		
<b>Package</b>	PG-LFBGA-180-1	<b>Weight*</b>	450.16 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	14.294	3.18	3.18	31753	31753
wire	noble metal	palladium	7440-05-3	0.009			21	
	non noble metal	copper	7440-50-8	0.934	0.21	0.21	2076	2097
encapsulation	organic material	carbon black	1333-86-4	0.346	0.08		769	
	plastics	epoxy resin	-	23.899	5.31		53091	
	inorganic material	silicondioxide	60676-86-0	148.939	33.09	38.48	330856	384716
substrate	inorganic material	bariumsulfate	7727-43-7	4.542	1.01		10089	
	plastics	acrylic resin	-	5.256	1.17		11676	
	non noble metal	metal hydroxide	-	7.106	1.58		15786	
	inorganic material	amorphous silica	7631-86-9	14.213	3.16		31573	
	plastics	epoxy resin	-	24.279	5.39		53934	
	inorganic material	glass fibre wool	65997-17-3	28.426	6.31		63145	
	non noble metal	copper	7440-50-8	95.069	21.12	39.74	211189	397392
plating	noble metal	gold	7440-57-5	0.682	0.15		1514	
	non noble metal	nickel	7440-02-0	1.866	0.41	0.56	4145	5659
solderball	noble metal	silver	7440-22-4	2.719	0.60		6040	
	non noble metal	tin	7440-31-5	74.971	16.65	17.25	166543	172583
glue	plastics	epoxy resin	-	0.653	0.14		1450	
	noble metal	silver	7440-22-4	1.958	0.44	0.58	4350	5800
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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